## WHAT IS CLAIMED IS:

- 1. A two-part adhesive system comprising:
- (a) an adhesive part being a mixture formed from (I) an ethylenically unsaturated monomer, (II) a metal molybdate, (III) a metal salt of an ethylenically unsaturated carboxylic acid in an amount less than 3 weight percent, and (IV) an ethylenically unsaturated carboxylic acid; and
- (b) an activator part which includes a free radical generator.
- 2. The adhesive system of claim 1, wherein said ethylenically unsaturated monomer is an acrylate or methacrylate ester monomer.
- 3. The adhesive system of claim 2, wherein said ethylenically unsaturated monomer is methyl methacrylate.
- 4. The adhesive system of claim 1, wherein said adhesive part further comprises an admixed elastomeric material having a  $T_{\rm g}$  less than -25°C and soluble in said ethylenically unsaturated monomer.
- wherein adhesive system of claim 4, elastomeric material is selected from the group consisting of polyacrylonitrile-butadiene copolymers, polychloroprene, copolymers of styrene and isoprene, copolymers of styrene and carboxylated polychloroprenes, carboxylated butadiene, polyacrylonitrile-butadiene copolymers, copolymers of ethylene and vinyl acetate, copolymers of styrene and olefinically hydrocarbons, polybutylene, acrylate-based unsaturated elastomers and mixtures thereof.

- 6. The adhesive system of claim 5, wherein said elastomeric material is polychloroprene.
- 7. The adhesive system of claim 1, wherein said adhesive part further comprises an admixed phosphorous-based adhesion promoter.
- 8. The adhesive system of claim 7, wherein said phosphorous-based adhesion promoter acrylate or is an methacrylate ester phosphate.
- 9. The adhesive system of claim 1, wherein said adhesive part further comprises an admixed core-shell impact modifier swellable in said ethylenically unsaturated monomer.
- 10. The adhesive system of claim 9, wherein said coreshell impact modifier is selected from the group consisting of MBS impact modifiers, ASA impact modifiers, ABS impact modifiers and mixtures thereof.
- 11. The adhesive system of claim 10, wherein said core shell impact modifier is methacrylate-butadiene-styrene graft copolymer.
- 12. The adhesive system of claim 1, wherein said metal of said metal molybdate is an divalent metal.
- 13. The adhesive system of claim 12, wherein said divalent metal is zinc.

- 14. The adhesive system of claim 1, wherein said metal salt of said ethylenically unsaturated carboxylic acid is a divalent metal salt.
- 15. The adhesive system of claim 14, wherein said unsaturated carboxylic acid is acrylic or methacrylic acid.
- 16. The adhesive system of claim 15, wherein said divalent metal salt of acrylic or methacrylic acid is zinc dimethacrylate.
- 18. The adhesive system of claim 1, wherein amount of said metal salt of said ethylenically unsaturated carboxylic acid is from about 0.25 to about 2.5 weight percent.
- 19. The adhesive system of claim 18, wherein said amount is from about 0.5 to about 2 weight percent.
- 20. The adhesive system of claim 1, wherein said adhesive part and said activator part are in a ratio from about 20:1 to about 1:1.
- 21. The adhesive system of claim 20, wherein said ratio is from about 15:1 to about 4:1.
- 22. The adhesive system of claim 1, wherein said free radical initiator is selected from the group consisting of peroxides, hydroperoxides, and mixtures thereof.
- 23. The adhesive system of claim 22, wherein said free radical initiator is benzoyl peroxide.

- 24. The adhesive system of claim 1, wherein said adhesive part further comprises at least one admixed reducing agent.
- 25. The adhesive system of claim 1, wherein said activator part further comprises an admixed epoxy resin.
- 26. The adhesive system of claim 25, wherein said epoxy resin is a diglycidyl ether of Bisphenol-A.
- 27. The adhesive system of claim 1, wherein said activator part further comprises an admixed plasticizer.
- 28. The adhesive system of claim 1, wherein said unsaturated carboxylic acid is acrylic or methacrylic acid.
- 29. A curable adhesive composition comprising a mixture of an adhesive part and an activator part, wherein the adhesive part includes (I) an ethylenically unsaturated monomer, (II) a metal molybdate, (III) a metal salt of an ethylenically unsaturated carboxylic acid in an amount less than 3 weight percent, and (IV) an ethylenically unsaturated carboxylic acid, and wherein the activator part includes a free radical generator.
- 30. A laminate comprising a first substrate and a second substrate bonded thereto with a cured adhesive composition comprising in an uncured state a mixture of an adhesive part and an activator part, wherein the adhesive part includes (I) an ethylenically unsaturated monomer, (II) a metal molybdate, (III) a metal salt of an ethylenically unsaturated carboxylic acid in an amount less than 3 weight percent, and (IV) an ethylenically

unsaturated carboxylic acid, and wherein the activator part includes a free radical generator.

- 32. A method of preparing a laminate which comprises contacting a surface of a first substrate with a surface of a second substrate with an adhesive composition therebetween, wherein said adhesive composition comprising a mixture of an adhesive part and an activator part, wherein the adhesive part includes (I) an ethylenically unsaturated monomer, (II) a metal molybdate, (III) a metal salt of an ethylenically unsaturated carboxylic acid in an amount less than 3 weight percent, and (IV) an ethylenically unsaturated carboxylic acid, and wherein the activator part includes a free radical generator.
- 33. The method of claim 32, wherein said substrates are selected from the group consisting of plastics, metals and combinations thereof.
- 34. The method of claim 32, wherein said surfaces of said substrates omit a primer prior to contacting.
- 35. A two-part adhesive system comprising:
- (a) an adhesive part being a mixture formed from (I) an ethylenically unsaturated monomer, (II) a metal molybdate, (III) an ethylenically unsaturated carboxylic acid, wherein said adhesive part is substantially free of a metal salt of an ethylenically unsaturated carboxylic acid; and
- (b) an activator part which includes a free radical generator.